Performance Data Sheet

AVA5535EXT

General Information

Model	AVA5535EXT	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12800	9600					
	Watts	1320	1350					
	Amps	4.45	4.21					
	Lb/h	170	129					
-10	Btu/h	14300	11000	8870				
	Watts	1460	1510	1520				
	Amps	4.71	4.59	4.41				
	Lb/h	188	147	123				
-5	Btu/h	16100	12700	10500	8950			
	Watts	1580	1660	1690	1680			
	Amps	4.94	4.93	4.87	4.75			
	Lb/h	210	169	144	128			
0	Btu/h	18300	14700	12400	10700	9350		
	Watts	1690	1790	1850	1870	1840		
	Amps	5.14	5.25	5.29	5.27	5.18		
	Lb/h	237	194	169	153	140		
5	Btu/h	20800	17100	14600	12800	11300		
	Watts	1790	1910	2000	2040	2050		
	Amps	5.31	5.54	5.68	5.75	5.75		
	Lb/h	267	224	198	182	168		
10	Btu/h	23700	19800	17100	15200	13600	11700	9070
	Watts	1870	2020	2130	2200	2230	2230	2180
	Amps	5.44	5.79	6.04	6.21	6.29	6.30	6.23
	Lb/h	301	257	231	214	200	180	148
15	Btu/h	26900	22800	20000	17900	16100	14100	11400
	Watts	1940	2110	2250	2350	2410	2430	2420
	Amps	5.54	6.01	6.37	6.64	6.80	6.88	6.87
	Lb/h	340	295	268	250	236	216	184
20	Btu/h	30500	26200	23200	20900	19000	16800	13900
	Watts	1990	2190	2350	2480	2570	2630	2650
	Amps	5.60	6.19	6.67	7.03	7.28	7.43	7.49
	Lb/h	382	336	308	291	275	255	223

25	Btu/h	34500	30000	26700	24300	22100	19700	16700
	Watts	2030	2260	2450	2600	2720	2810	2860
	Amps	5.62	6.34	6.93	7.39	7.73	7.96	8.07
	Lb/h	429	382	353	335	319	298	266
30	Btu/h	38900	34100	30600	27900	25600	23000	19800
	Watts	2060	2310	2530	2710	2860	2980	3070
	Amps	5.61	6.45	7.15	7.71	8.14	8.44	8.62
	Lb/h	479	432	402	382	366	345	312
35	Btu/h	43600	38600	34800	31900	29300	26600	23100
	Watts	2070	2350	2590	2800	2990	3140	3260
	Amps	5.55	6.52	7.34	8.00	8.52	8.90	9.14
	Lb/h	534	485	454	434	417	396	362
40	Btu/h	48800	43400	39400	36200	33400	30400	26800
	Watts	2070	2370	2640	2890	3100	3280	3440
	Amps	5.46	6.56	7.48	8.25	8.86	9.32	9.63
	Lb/h	594	543	511	490	472	450	416
45	Btu/h	54300	48700	44400	40900	37800	34600	30700
	Watts	2060	2380	2680	2950	3200	3410	3600
	Amps	5.33	6.55	7.59	8.46	9.16	9.70	10.1
	Lb/h	657	605	572	550	531	508	474
50	Btu/h	60300	54300	49700	46000	42600	39100	35000
	Watts	2030	2380	2710	3010	3280	3530	3760
	Amps	5.15	6.50	7.66	8.64	9.43	10.0	10.5
	Lb/h	725	671	637	614	594	570	536
55	Btu/h	66600	60300	55400	51400	47700	43900	39500
	Watts	1980	2360	2720	3050	3360	3640	3900
	Amps	4.93	6.41	7.69	8.77	9.66	10.4	10.9
	Lb/h	796	742	706	681	661	636	601

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.497182E+05	-6.092260E+02	1.240413E+00	2.088040E+03
C2	8.075403E+02	-4.121311E+00	-2.422159E-01	7.943371E+00
C3	-3.380190E+03	4.474182E+01	8.806568E-02	-4.896768E+01
C4	9.893996E+00	-3.164213E-01	-8.162832E-04	9.318654E-02
C5	-5.336921E+00	1.680352E-01	4.458732E-03	-4.184538E-02
C6	2.829331E+01	-1.955998E-01	-5.534470E-04	4.228916E-01
C7	8.011510E-03	-1.115325E-04	-1.388781E-06	3.321045E-05
C8	-3.581815E-02	5.649835E-04	2.028494E-06	-1.583271E-04
C9	1.374183E-02	1.766729E-03	-1.220548E-05	1.648757E-04
C10	-8.227391E-02	-5.713898E-05	7.775288E-07	-1.251190E-03

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature